BRUHAT BENGALURU MAHANAGARA

PALIKE

EMB

(Pre- Measurement Sheet)
And
(Measurement Sheet)
1st And Part Bill

BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads, Drains and Constructions of Culverts at Amruthahalli and Surrounding areas in Ward No. 09, Amruthahalli.

E-MB - REGULAR & PRE MEASUREMENT BILL DETAILS

First And Part Bill Recorded On- / /

Sl No	Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate	Amount
8	Providing ,laying , spreading and compacting graded stone aggregates to wet mix Macadam specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site ,laying in uniform layers with pavers/grader in sub -base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH specification No.406(Pwd SR 21-22 VolII Pg no 24 Item No.4.27(A))										
							Previous Qty	0.00			
	Vide Total Executed Qty from Premeasurement Page no. 01-02							125.75			
	BOQ QTY	125.78					Total	125.75	Cum	2764.81	347675.00
							Deduct Previouly paid qty	0.00			
							To be Paid Now	125.75			
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.Morth Specification No.502 PWD SR 21-22 (P.No.29 It.No.5.1A(i), PWD SR 2021-22 (Vol-III))										
							Previous Qty	0.00			
	Vide Total Executed Qty from Premeasurement Page no. 01-02 03-04							760.00			
	BOQ QTY	838.55					Total	760.00	Cum	48.51	36868.00
	Upto 125 %	735.75 = Rs.	3569½				Deduct Previouly paid qty	0.00			36867½
	Above 125 %	24.25 = Rs	1176½				To be Paid Now	760.00			
10	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (Pg:33, It.No-5.12 C PWD SR:2021-22 (Vol-III))										
							Previous Qty	0.00			
	Vide Total Executed Qty from Premeasurement Page no. 01-02 - 5-6							41.91			
	BOQ QTY	41.93					Total	41.91	Cum	10554.54	442341.00
	Upto 125%	36.79 =	388302				Deduct Previouly paid qty	0.00			442341.00
	Above 125%	5.12	54039				To be Paid Now	41.91			
11	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specifiction No. 503 (P.No.29 It.No.5.3, PWD SR 2021-22 (Vol-III))										
							Previous Qty	0.00			
	Vide Total Executed Qty from Premeasurement Page no. 01-02							3493.00			
	BOQ QTY	3493.95					Total	3493.00	Cum	16.17	56482.00
	Upto 125%	2452.50 =	396571/2				Deduct Previouly paid qty	0.00			
	Above 125%	1040.50 =	16825				To be Paid Now	3493.00			
12	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using Crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respec (Pg:36, It.No-5.16 C PWD SR:2021-22 (Vol-III))										
	Water supply Conection										
	2nd B Cross										
		1	15	6.9	6.8	6.85	0.04	4.0			
		1	15	6.8	6.7	6.75	0.04	4.0			
		1	15	6.7	6.6	6.65	0.04	4.0			
		1	15	6.6	7.0	6.80	0.04	4.0			
		1	15	7.0	6.9	6.95	0.04	4.0			
		1	15	6.9	6.7	6.80	0.04	4.0			
		1	15	6.7	6.8	6.75	0.04	4.0			
		1	10.5	6.8	6.9	6.85	0.04	3.0			
	Deduct Man Holes	-1	0.64				0.04	-0.03			
	2nd C Cross										
		1	15	7.6	7.7	7.65	0.04	5.0		41.0	
		1	15	7.7	7.9	7.80	0.04	5.0			

Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate	Amount
	1	15	7.9	7.5	7.70	0.04	5.0			
	1	15	7.5	7.4	7.45	0.04	4.0			
	1	15	7.4	7.9	7.65	0.04	5.0			
	1	15	7.9	7.8	7.85	0.04	5.0			
	1	15	7.8	7.6	7.70	0.04	5.0			
	1	11.8	7.6	7.6	7.60	0.04	4.0			
Deduct Man Holes	-1	0.64				0.04	-0.03			
Near Reliance Smart Point										
2nd Cross near	1	15	5.2	5.1	5.15	0.04	3.0			
	1	15	5.1	5.1	5.10	0.04	3.0			
	1	15	5.1	5.2	5.15	0.04	3.0			
	1	15	5.2	5.3	5.25	0.04	3.0			
	1	15	5.3	5.5	5.40	0.04	3.0			
	1	15	5.5	5.6	5.55	0.04	3.0			
	1	8.3	5.6	5.6	5.60	0.04	2.0			
Deduct Man Holes	-1	0.64				0.04	-0.03			
Hoodi layout										
1st Cross	1	15	5.2	5.2	5.20	0.04	3.0			
	1	15	5.2	5.1	5.15	0.04	3.0			
	1	15	5.1	5.3	5.20	0.04	3.0			
	1	15	5.3	5.5	5.40	0.04	3.0			
	1	10.7	5.5	5.3	5.40	0.04	2.0			
Deduct Man Holes	-1	0.64				0.04	-0.03			
2nd Cross	1	15	5.2	5.2	5.20	0.04	3.0			
	1	15	5.2	5.2	5.20	0.04	3.0			
	1	15	5.2	5.3	5.25	0.04	3.0			
	1	15	5.3	5.1	5.20	0.04	3.0			
	1	11.3	5.1	5.2	5.15	0.04	2.0			
Deduct Man Holes	-2	0.64				0.04	-0.05			
3rd cross	1	15	4.1	4.1	4.10	0.04	2.0			
	1	15	4.1	4.2	4.15	0.04	2.0			
	1	15	4.2	4.1	4.15	0.04	2.0			
	1	15	4.1	4.3	4.20	0.04	3.0			
	1	11.1	4.3	4.1	4.20	0.04	2.0	A)	Upto 12ST	98.10
Deduct Man Holes	-2	0.64				0.04	-0.05	B)	Above 12ST	41.66
4th Cross	1	15	3.7	3.5	3.60	0.04	2.0	A)		1202170 | 2
	1	15	3.5	3.6	3.55	0.04	2.0	B)		510279
	1	15	3.6	3.2	3.40	0.04	2.0			
	1	15	3.2	3.3	3.25	0.04	2.0			
	1	12.5	3.3	3.6	3.45	0.04	2.0			
Deduct Man Holes	-2	0.64				0.04	-0.05			
Cross Road	1	12.50	3.1	3.1	3.10	0.04	2.0		98.8	1712449.60
						Total	139.74	Cum	12254.54	1712498.00

13 Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. Page No. 57/ Item No. 8.15 PWD SR 2021-22 (Vol-III).

Providing and laying Bituminous Concrete									
Water supply Conection									
2nd B Cross									
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	10.5	0.1	0.1	0.10		2.0		
2nd C Cross									
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		
	2	15	0.1	0.1	0.10		3.0		41.0

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

	Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate	Amount
		2	15	0.1	0.1	0.10		3.0			
		2	11.8	0.1	0.1	0.10		2.0			
	Near Reliance Smart Point										
	2nd Cross near	2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	8.3	0.1	0.1	0.10		2.0			
	Hoodi layout										
	1st Cross	2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	10.7	0.1	0.1	0.10		2.0			
	2nd Cross	2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	11.3	0.1	0.1	0.10		2.0			
	3rd cross	2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0	A) (upto 125')		109.00
		2	15	0.1	0.1	0.10		3.0	B) Above 125'		16.00
		2	15	0.1	0.1	0.10		3.0			
		2	11.1	0.1	0.1	0.10		2.0	A) Rs.		6017/2
									B) Rs		7729/2
	4th Cross	2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	15	0.1	0.1	0.10		3.0			
		2	12.5	0.1	0.1	0.10		3.0		80.00	
		2					Total	123.00	Cum	552.04	67901.00
14	Loading and unloading of stone Boulder/stone aggreagtes/sand/kankar/ morrum (Tippers 14m3)(PWD SR 20121-22 Vol -III pg no 3 item no.1.1 C)										
	EIRL Item No. 1							190.20			
							Total	190.20	Cum	85.46	16255.00
15	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (Vol-III) Page No.3, Item No.1.4B of PWD SR 2021-22										16254/2
	Cost of Haulage										
	Qty Vide Fromn item - 14							190.20			
	Density of sand /debries i.e 1.28 tonne/cum				190.20	1.28		243.46			
	Cost of haulage Excluding loading and unloading on surface road to a distance of 9.80 km s				243.46	9.80		2385.89			
							Total	2385.89	T.KM	12.60	30062.00
EIRL-1	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)										
							Previous Qty	0.00			
	Vide Total Executed Qty from Premeasurement Page no. 01-02							190.20			
	BOQ QTY	212.01					Total	190.20	Cum	75.07	14278.00
							Deduct Previouly paid qty	0.00			
							To be Paid Now	190.20			

Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate	Amount
Construction of dry lean Cement concrete Sub- base over a prepared sub grade with coarse and fine aggregates Afirming to IS :383, the size of coarse aggregates not exceeding 25mm, aggregates cement ratio not to exceed 15:1 aggregates gradation aftr blending to be as per table 600-1 cement content not be less than 150kg/m3 optimum moisture contnt to be detrmined during trail length construction concrete strength not to be less than 10Mpa at 7 days mixed in a batching plant transported to site laid with a paver with electronic sensor compacting with 8-10t vibratory roller finishing and curing (vol III item no 6.1 pg no. 43)										
						Previous Qty	0.00			
Vide Total Executed Qty from Premeasurement Page no. 01-02							17.48			84707.00
						Total	17.48	Cum	4845.92	84685.00
BOQ QTY	41.09					Deduct Previouly paid qty	0.00			
						To be Paid Now	17.48			
Eir I-3 Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work. Page No. 138/ Item No. 20.29/ PWD SR 2021-22 (Vol-III).										
Near Reliance Smart Point										
2nd Cross near										
	1	15	3.4	3.4	3.40	0.15	8.0			
	1	15	3.4	3.3	3.35	0.15	7.5			
	1	3.8	3.3	3.5	3.40	0.15	1.9			137390.00
						Total	17.48	Cum	7895.98	137986.00
							17.40		Sub-Total - 1	2947031.00
									GST 18%	530466.00
									Total Amount	3477497.0

Sub total: 2946406.00
Round off: 2946000.00
GST 18%: 530280.00
Total: 3476280.00

Assistant Engineer
Ward No. 09
12.06.2023

Assistant Executive Engineer
Bytarayanapura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

BRUHAT BENGALURU MAHANAGARA PALIKE

1st And Part Bill

Pre- Measurement Sheet

Name of Work :- Improvements to Roads, Drains and Constructions of Culverts at Amruthahalli and Surrounding areas in Ward No. 09, Amruthahalli.

BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads, Drains and Constructions of Culverts at Amruthahalli and Surrounding areas in Ward No. 09, Amruthahalli.

PRE MEASUREMENT BILL DETAILS

First And Part Bill Recorded On- / /

Sl No	Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate
EMB - Measurement Continued Recorded On : 15/04/2023										
8	Providing ,laying , spreading and compacting graded stone aggregates to wet mix Macadam specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site ,laying in uniform layers with pavers/grader in sub -base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH specification No.406(Pwd SR 21-22 VolII Pg no 24 Item No.4.27(A))									
	Thalakaveri layout									
	Water supply Conection									
	2nd B Cross									
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	10.5	0.9	0.9	0.90	0.25	2.0		
	2nd C Cross									
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	11.8	0.9	0.9	0.90	0.25	3.0		
	Near Reliance Smart Point									
	2nd Cross near	1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	8.3	0.9	0.9	0.90	0.25	2.0		
	Hoodi layout									
	1st Cross	1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	10.7	0.9	0.9	0.90	0.25	2.0		
	2nd Cross	1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	11.3	0.9	0.9	0.90	0.25	3.0		
	3rd cross	1	15	0.9	0.9	0.90	0.15	2.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.0		
		1	11.1	0.9	0.9	0.90	0.25	2.0		
	4th Cross	1	15	0.9	0.9	0.90	0.25	3.0		
		1	15	0.9	0.9	0.90	0.25	3.4		
		1	15	0.9	0.9	0.90	0.25	3.4		118.8

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	12.5	0.9	0.9	0.90	0.3	3.0		7.00
						Total	125.75	Sqm	2764.81

15.04.2021

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Byatarayanpura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
B - Measurement Continued Recorded On : 16/04/2023									
9 Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means.Morth Specification No.502 PWD SR 21-22 (P.No.29 It.No.5.1A(i), PWD SR 2021-22 (Vol-III))									
Thalakaveri layout									
2nd B Cross									
Water supply Conection									
2nd B Cross									
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	10.5	1.2	1.2	1.20		13.0		
2nd C Cross									
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	11.8	1.2	0.9	1.05		12.0		
Near Reliance Smart Point									
2nd Cross near	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	8.3	1.2	1.2	1.20		10.0		
Hoodi layout									
1st Cross	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	10.7	1.2	1.2	1.20		13.0		
2nd Cross	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	11.3	1.2	1.2	1.20		14.0		
3rd cross	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	11.1	1.2	1.2	1.20		13.0		
4th Cross	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	15	1.2	1.2	1.20		18.0		
	1	12.5	1.2	1.2	1.20		15.0		738.0

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
Road Cuttings	1	5.40	3.50	3.50	3.50		19.0		
	1	2.30	1.55	1.20	1.20		3.0		220.0
						Total	760.00	Cum	48.51

16.04.2013

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Byatarayanapura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
B - Measurement Continued Recorded On : 06/04/2023									
10 Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (Pg:33, It.No-5.12 C PWD SR:2021-22 (Vol-III))									
Thalakaveri layout									
Water supply Conection									
2nd B Cross									
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	10.5	0.9	0.9	0.90	0.05	0.47		
2nd C Cross									
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	11.8	0.9	0.9	0.90	0.05	1.0		
Near Reliance Smart Point									
2nd Cross near	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	8.3	0.9	0.9	0.90	0.05	0.37		
Hoodi layout									
1st Cross	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	10.7	0.9	0.9	0.90	0.05	0.48		
2nd Cross	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	11.3	0.9	0.9	0.90	0.05	1.0		
3rd cross	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	11.1	0.9	0.9	0.90	0.05	0.50		
4th Cross	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	15	0.9	0.9	0.90	0.05	1.0		
	1	12.5	0.9	0.9	0.90	0.05	1.0		

40.8

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
Road Cuttings	1	5.40	3.50	3.50	3.50	0.05	0.9		
	1	2.30	1.55	1.20	1.20	0.05	0.1		
						Total	41.91	Cum	10554.54

Assistant Engineer
Ward No. 09
16.04.2023

Assistant Executive Engineer
Kyatanayanpura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Description of work	No	Dimensions L	B 1	B 2	B Avg	D	Qty	Unit	Rate
MB - Measurement Continued Recorded On : / /									
11 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specifiction No. 503 (P.No.29 It.No.5.3, PWD SR 2021-22 (Vol-III))									
Thalakaveri layout									
Water supply Conection									
2nd B Cross									
	1	15	6.9	6.8	6.85		103.0		
	1	15	6.8	6.7	6.75		101.0		
	1	15	6.7	6.6	6.65		100.0		
	1	15	6.6	7.0	6.80		102.0		
	1	15	7.0	6.9	6.95		104.0		
	1	15	6.9	6.7	6.80		102.0		
	1	15	6.7	6.8	6.75		101.0		
	1	10.5	6.8	6.9	6.85		72.0		
2nd C Cross									
	1	15	7.6	7.7	7.65		115.0		
	1	15	7.7	7.9	7.80		117.0		
	1	15	7.9	7.5	7.70		116.0		
	1	15	7.5	7.4	7.45		112.0		
	1	15	7.4	7.9	7.65		115.0		
	1	15	7.9	7.8	7.85		118.0		
	1	15	7.8	7.6	7.70		116.0		
	1	11.8	7.6	7.6	7.60		90.0		
Near Reliance Smart Point									
2nd Cross near	1	15	5.2	5.1	5.15		77.0		
	1	15	5.1	5.1	5.10		77.0		
	1	15	5.1	5.2	5.15		77.0		
	1	15	5.2	5.3	5.25		79.0		
	1	15	5.3	5.5	5.40		81.0		
	1	15	5.5	5.6	5.55		83.0		
	1	8.3	5.6	5.6	5.60		46.0		
Hoodi layout									
1st Cross	1	15	5.2	5.2	5.20		78.0		
	1	15	5.2	5.1	5.15		77.0		
	1	15	5.1	5.3	5.20		78.0		
	1	15	5.3	5.5	5.40		81.0		
	1	10.7	5.5	5.3	5.40		58.0		
2nd Cross	1	15	5.2	5.2	5.20		78.0		
	1	15	5.2	5.2	5.20		78.0		
	1	15	5.2	5.3	5.25		79.0		
	1	15	5.3	5.1	5.20		78.0		
	1	11.3	5.1	5.2	5.15		58.0		
3rd cross	1	15	4.1	4.1	4.10		62.0		
	1	15	4.1	4.2	4.15		62.0		
	1	15	4.2	4.1	4.15		62.0		
	1	15	4.1	4.3	4.20		63.0		
	1	11.1	4.3	4.1	4.20		47.0		
4th Cross	1	15	3.7	3.5	3.60		54.0		
	1	15	3.5	3.6	3.55		53.0		
	1	15	3.6	3.2	3.40		51.0		
	1	15	3.2	3.3	3.25		49.0		
	1	12.5	3.3	3.6	3.45		43.0		
						Total	**3493.00**	**Cum**	**16.17**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Byatarayanpura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
MB - Measurement Continued Recorded On : / /									
EI RL-1 Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)									
Thalakaveri layout									
Water supply Conection									
2nd B Cross									
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	10.5	0.9	0.9	0.90	0.3	3.0		
2nd C Cross									
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	11.8	0.9	0.9	0.90	0.3	3.0		
Near Reliance Smart Point									
2nd Cross near	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	8.3	0.9	0.9	0.90	0.3	2.0		
Hoodi layout									
1st Cross	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	10.7	0.9	0.9	0.90	0.3	3.0		
2nd Cross	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	11.3	0.9	0.9	0.90	0.3	3.0		
3rd cross	1	15	0.9	0.9	0.90	0.15	2.0		
	1	15	0.9	0.9	0.90	0.25	3.0		
	1	15	0.9	0.9	0.90	0.25	3.0		
	1	15	0.9	0.9	0.90	0.25	3.0		
	1	11.1	0.9	0.9	0.90	0.25	2.0		
4th Cross	1	15	0.9	0.9	0.90	0.3	4.0		
	1	15	0.9	0.9	0.90	0.3	4.1		
	1	15	0.9	0.9	0.90	0.23	3.1		
	1	15	0.9	0.9	0.90	0.3	4.0		
	1	12.5	0.9	0.9	0.90	0.3	3.0		157.3

Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
For C C Road									
Near Reliance Smart Poi									
2nd Cross near	1	15	3.4	3.4	3.40	0.3	15.0		
	1	15	3.4	3.3	3.35	0.3	15.1		
	1	3.8	3.3	3.5	3.40	0.23	3.0		
						Total	190.20	Cum	75.07

3310

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Byatarayanpura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

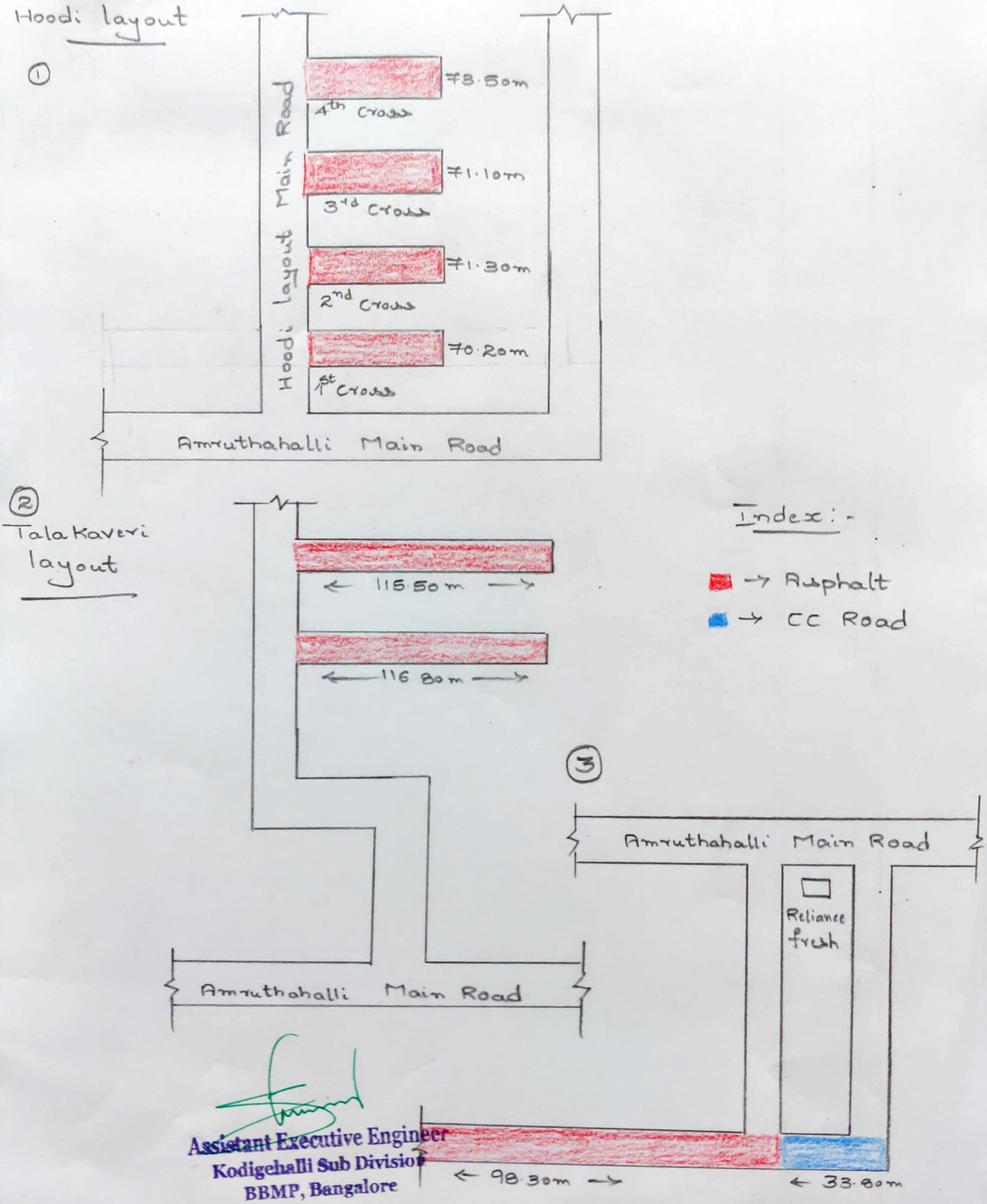
Description of work	No	Dimensions					Qty	Unit	Rate
		L	B 1	B 2	B Avg	D			
MB - Measurement Continued Recorded On : / /									
Eir l-2	Construction of dry lean Cement concrete Sub- base over a prepared sub grade with coarse and fine aggregates confirming to IS :383, the size of coarse aggregates not exceeding 25mm, aggregates cement ratio not to exceed 15:1 agregates gradation aftr blending to be as per table 600-1 cement content not be less than 150kg/m3 optimum moisture contnt to be detrmined during trail length construction concrete strength not to be less than 10Mpa at 7 days mixed in a batching plant transported to site laid with a paver with electronic sensor compacting with 8-10t vibratory roller finishing and curing (vol III item no 6.1 pg no. 43)								
	For C C Road								
	Near Reliance Smart Point								
	2nd Cross near	1	15	3.4	3.4	3.40	0.15	8.0	
		1	15	3.4	3.3	3.35	0.15	7.5	
		1	3.8	3.3	3.5	3.40	0.15	1.9	
							Total	**17.48**	**Cum** 4845.92
								17.40	

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Byatarayanpura Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Name of Work - Improvements to Roads & drains & construction of culverts at Amruthahalli & Surrounding areas in Ward No. 09



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore